

Fig. 1 (Prior Art)

3

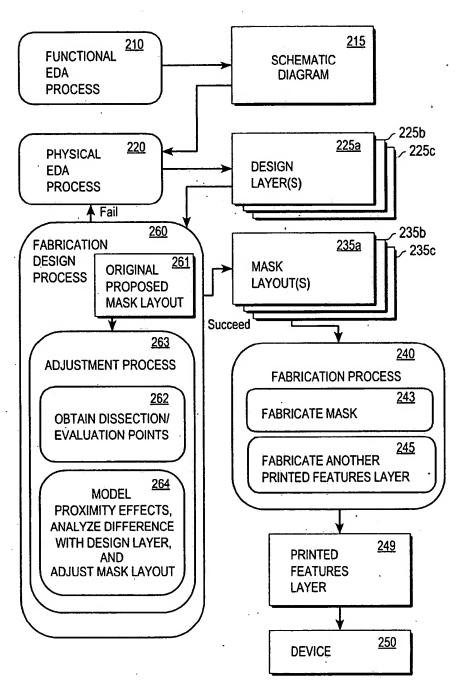


Fig. 2

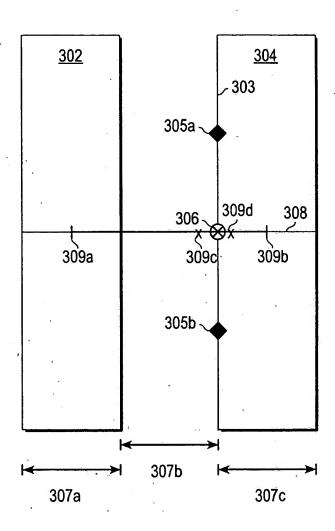


Fig. 3A

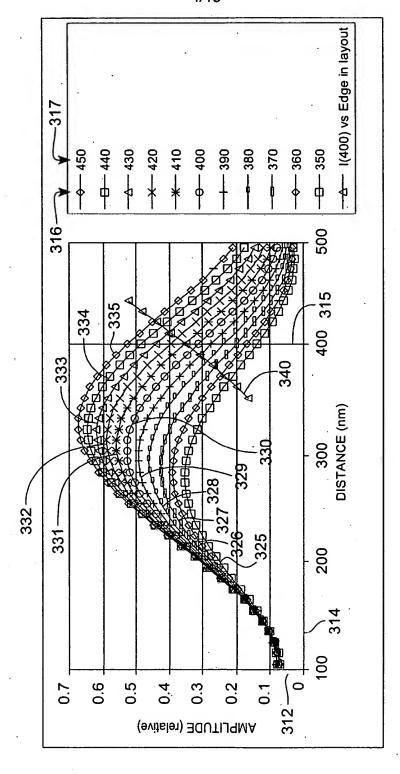
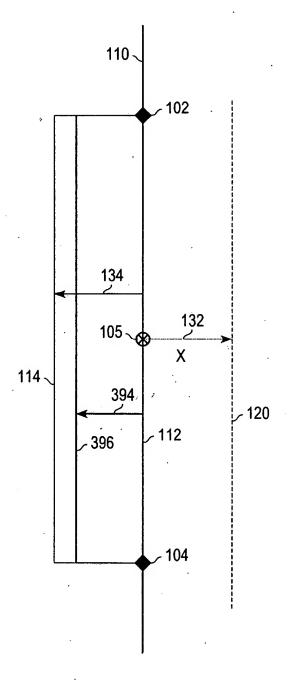
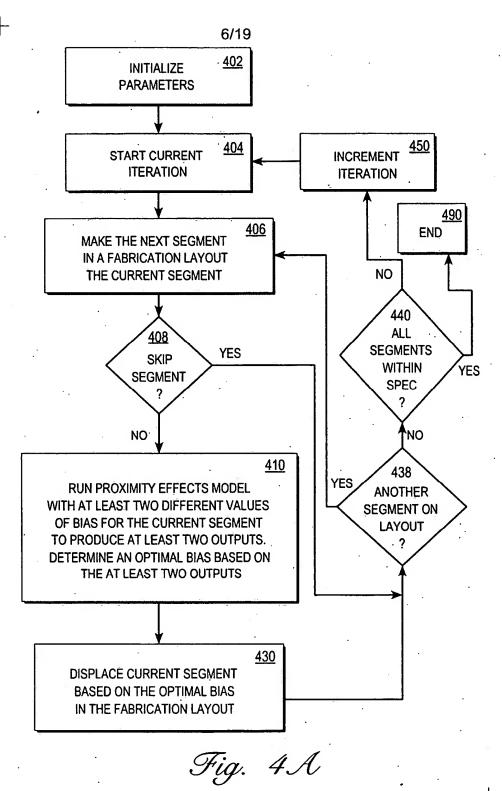


Fig. 398

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<u>402a</u> INITIALIZE EXPERIMENTAL ADDITIONAL BIAS (STEP SIZE) 401 INITIALIZE HALO DISTANCE. <u>403</u> INITIALIZE NUMBER N OF KERNEL FUNCTIONS <u>405</u> SET PRE-BIAS FOR EACH SEGMENT <u>407</u> **SET MAXIMUM BIAS**

Fig. 4B

UPDATE EXPERIMENTAL ADDITIONAL BIAS

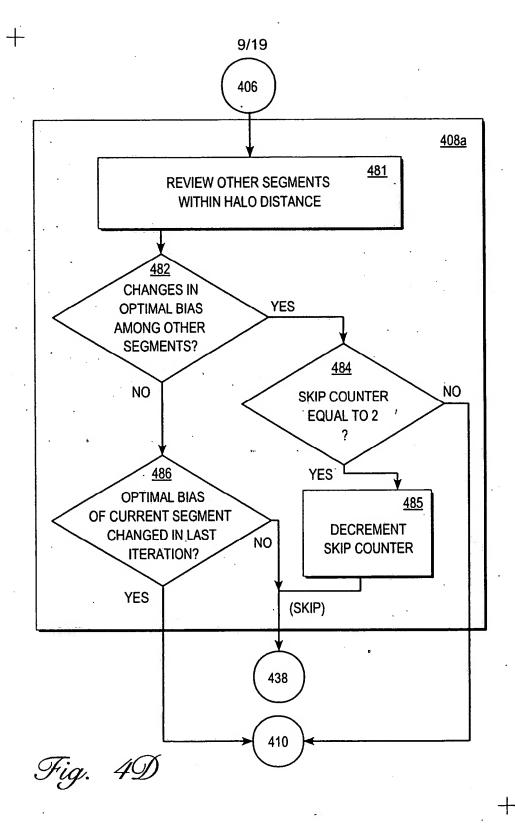
(STEP SIZE)

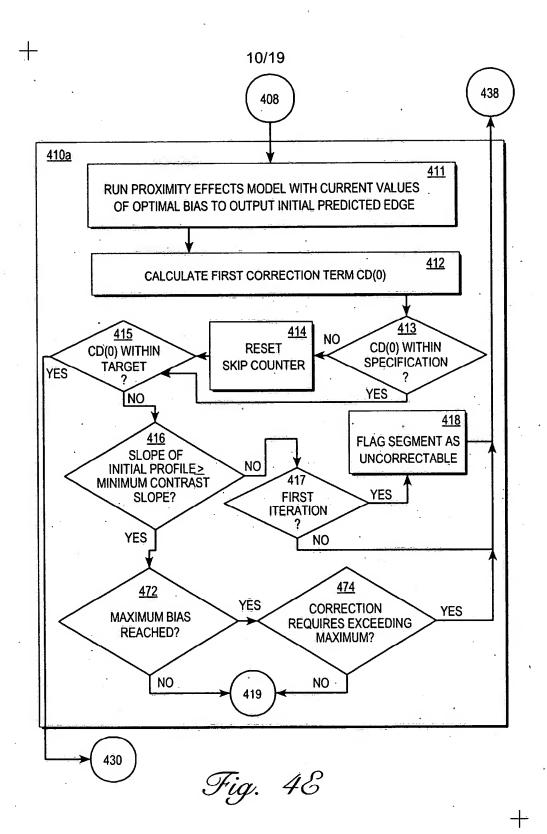
453

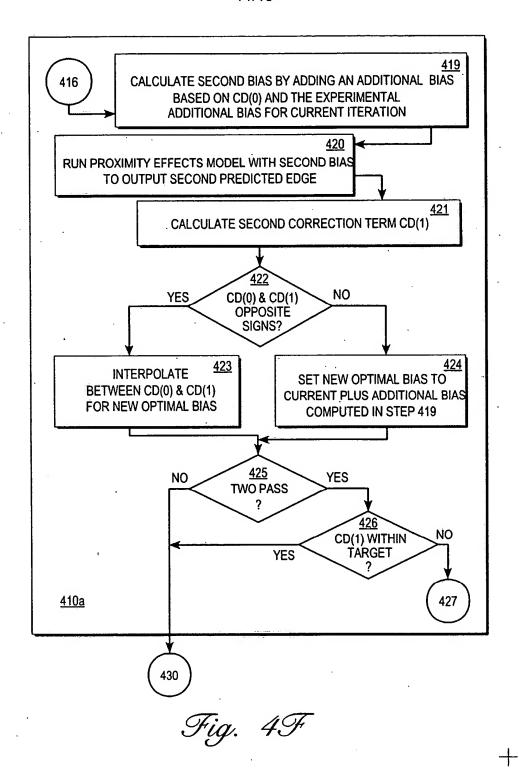
UPDATE HALO DISTANCE

UPDATE NUMBERN
OF KERNEL FUNCTIONS

STORE AT LEAST ONE MODEL PRE-IMAGE
FOR EVALUATION POINT







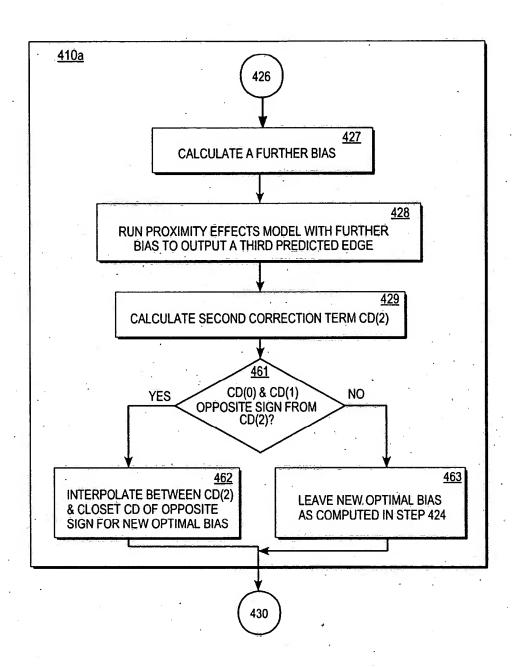


Fig. 4G

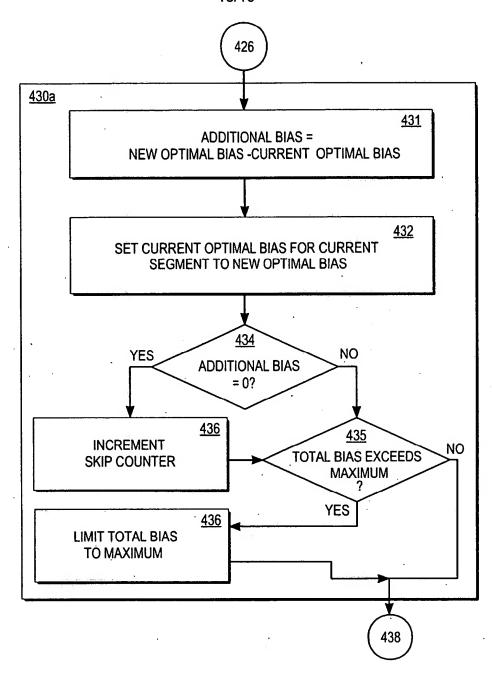


Fig. 4H

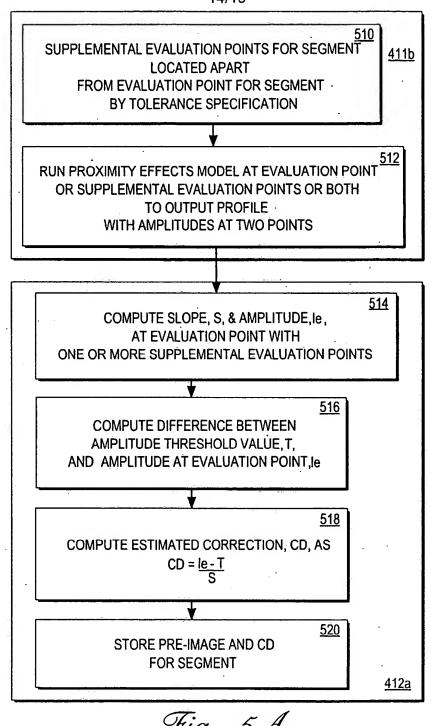


Fig. 5A

<u>411a</u>

RETRIEVE STORED PRE-IMAGE AT EVALUATION POINT (EVAL PT) & SUPPLEMENTAL EVAL PTS FOR CURRENT SEGMENT

<u>532</u>

<u>530</u>

RETRIEVE CHANGES IN OPTIMAL BIAS FOR CURRENT SEGMENT AND OTHER SEGMENTS WITHIN HALO DISTANCE, FOR HALO DISTANCE OF CURRENT ITERATION

534

COMPUTE CHANGE IN PRE-IMAGE AT EACH OF EVAL PT & SUPPLEMENTAL EVAL PTS AS SUM OF CONVOLUTIONS OF N KERNEL FUNCTIONS WITH CHANGES IN OPTIMAL BIAS, FOR N OF CURRENT ITERATION

536

FOR EACH OF EVAL PT & SUPPLEMENTAL EVAL PTS ADD STORED PRE-IMAGE TO CHANGE OF PRE-IMAGE COMPUTED IN STEP 534

<u>538</u>

COMPUTE & OUTPUT INTENSITIES & PREDICTED EDGE POSITION

Fig. 5B

600

OBTAIN FIRST EDGE POSITIONS IN FABRICATION LAYOUT WITH TEST PATTERNS

604

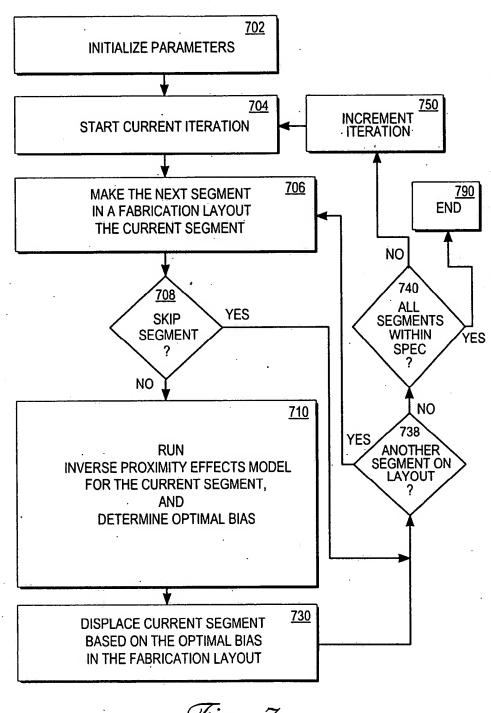
OBTAIN SECOND EDGE POSITIONS IN PRINTED FEATURES LAYER PRODUCED USING FABRICATION LAYOUT

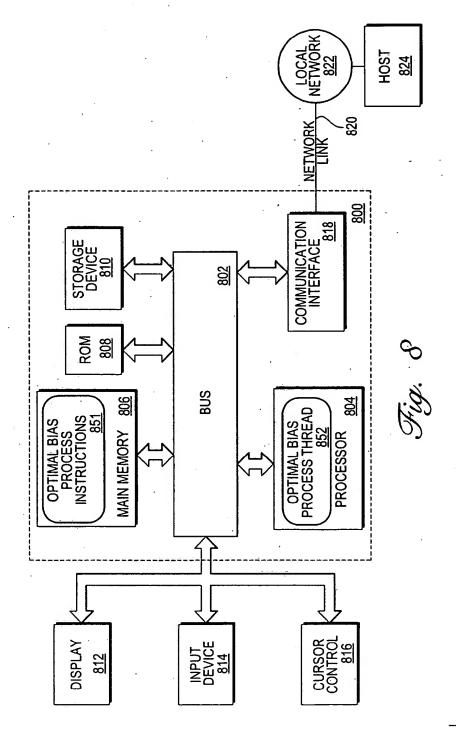
606

FIT KERNAL FUNCTIONS THAT OUTPUT
AMPLITUDES RELATED TO FIRST EDGE POSITIONS
BASED ON INPUT
OF SECOND EDGE POSITIONS

608

BUILD INVERSE PROXIMITY EFFECTS MODEL
BY CONSTRUCTING
A LOOK-UP TABLE FOR EACH KERNEL FUNCTION
HAVING A VALUE ASSOCIATED WITH
A POSITION IN THE PRINTED FEATURES LAYER





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